

## A NEW FLORIDIAN HELICINA.

BY H. A. PILSBRY.

*Helicina tantilla* n. sp.

Shell very small, much depressed, finely and weakly striate. Spire low, convex, with rather straight outlines. Whorls  $3\frac{1}{2}$ , rather slowly widening, the last much wider, rounded at the periphery, convex beneath, impressed around the central callus. Aperture quite oblique, semi-circular, the lip obtuse, not noticeably expanded. Umbilical callus but slightly convex, not filling the cavity to the level of the surrounding convexity of the base. Alt. 1.3, diam. 2.5 mm.

Palm Beach, Florida. Type no. 77349 A. N. S. P., coll. by H. A. Pilsbry.

This tiny *Helicina* is quite distinct from all the Antillean species I have been able to compare. A single bleached specimen was gathered in June, 1899, with other small land shells, in the woods about a quarter of a mile from the Atlantic beach. I did not notice it at the time, or I would have made search for more; it was only detected when the material was being sorted at home. No further specimens have turned up in the three years since this one was taken, and it is now published in the hope that some reader of the NAUTILUS who may visit that most beautiful of the winter resorts of east Florida, may search for the species, and complete the description by finding living specimens. It has no resemblance to the young of *H. orbiculata*.

## NEW LAND MOLLUSKS FROM THE JAPANESE EMPIRE.

BY H. A. PILSBRY.

*Alycaeus vinctus* n. sp. Moderately umbilicate with conic spire and the general aspect of other described Japanese species of *Alycaeus*. Whorls  $3\frac{2}{3}$ , the first  $1\frac{1}{2}$  smooth, corneous-brown, following whorls dull, whitish, sculptured with lamellar rib-striae and finer spiral threads, the riblets as usual much more crowded on the back of the last whorl. Constriction of neck rather strongly marked, and with the portion following it, *smooth*, free from riblets, or with weak striae only. "Tube" long, reflexed, lying in the suture.

Aperture oblique, circular, the peristome blunt, continuous, strengthened by a *very strong external rib* which is beveled to the lip-edge. Operculum yellow, thin. Alt. 2.7; diam. 3.6 to 4 mm. Tanegashima, Osumi. (Mr. Hirase, no. 916.)

Readily distinguished by the excessively heavy collar behind the lip and the comparatively conspicuous spiral threads. (*Vinctus*, bound, in allusion to the heavy, hoop-like lip-rib.)

*Macrochlamys semisericata* n. sp. Shell perforate, moderately depressed, dark reddish-brown, thin and somewhat translucent; the surface polished below, dull with a silken sheen at the periphery and above. Sculpture of excessively fine, close, slightly waved, parallel, slightly oblique rib-striae above, extending from the apex to below the periphery, the base smooth. Whorls  $4\frac{1}{2}$ , slowly increasing, convex, separated by an impressed suture, the last much wider, rounded at the periphery. Aperture oblique, lunate; peristome thin and simple, dilated at the columellar insertion. Alt. 3, diam. 5.2 mm.

Kurozu, Kii, Types no. 83374, A. N. S. P., from no. 935a of Mr. Hirase's collection. Slightly smaller specimens were found at Nachi, Kii, Mr. Hirase's no. 955.

Distinguished from *M. cerasina* v. *awaensis* and *M. tanegashimae* by the silken lustre of the upper surface, produced by fine parallel striae. It is much smaller than *awaensis*. (*Semisericatus*, clothed half in silk.)

*Zonitoides subarboreus* n. sp.

Shell extremely similar to *Z. arboreus* (Say), from which it differs in the wider, less deeply lunate aperture, and the slightly wider umbilicus. The shell is brownish yellow. Surface glossy, irregularly striate, smoother below, without spiral striae. Whorls  $4\frac{1}{2}$ , convex, separated by an impressed suture. Alt. 2.7, diam. 6 mm., or slightly smaller.

Hachijo-jima, Izu. Types no. 83375, A. N. S. P., from no. 951 of Mr. Hirase's collection; collected by Mr. Nakada, 1902.

This species is more depressed than *Z. nitidus*, and the base is less convex. If found in the United States, the differences from *Z. arboreus* would hardly be noticed; but its location on an island over one hundred miles off middle Japan, together with the slight divergence noted above, seem to indicate a distinct species. (*Subarboreus*

might mean under trees, but here it refers to the resemblance to *Zonitoides arboreus*, one of the commonest snails of North America.)

*Microcystina circumdata* n. sp. Shell perforate, depressed, with low, conic spire, glossy, light yellowish-brown, somewhat translucent. Sculpture of slight growth-lines, and under a strong lens there are seen to be excessively minute, close, engraved spiral lines above, and shallow, weak, and much coarser spiral sulci beneath. Whorls  $4\frac{1}{2}$ , convex, slowly increasing, joined by an impressed suture, the last whorl rounded peripherally, impressed around the perforation. Aperture lunate, oblique; outer margin of the peristome thin and simple, the columellar margin thickened within, narrowly dilated at the insertion. Alt. 2, diam. 3.4 mm.

Hachijo-jima, Izu. Types no. 83376, A. N. S. P., from no. 949 of Mr. Hirase's collection.

This species is larger and less depressed than *M. yakuensis*, which resembles it more than any other species which I have compared. (*Circumdatus*, surrounded, *i. e.*, by the sea.)

*Kaliella hachijoensis* n. sp. Shell imperforate, globose-conic, smooth except for faint growth-striae, yellowish-brown. Spire conic with slightly convex lateral outlines, the apex obtuse. Whorls  $5\frac{1}{2}$ , convex, separated by an impressed suture, the last inconspicuously and bluntly angular at the periphery, convex beneath. Aperture lunate, but slightly oblique; peristome thin and simple, the columellar end reflexed, whitish. Alt. 2.7, diam. 3.4 mm.

Hachijo-jima, Izu. Types no. 83377, A. N. S. P., from no. 941 of Mr. Hirase's collection, collected by Mr. Nakada, 1902.

*Kaliella pallida* n. sp. Shell minutely perforate, depressed conic, glossy and smooth except for faint growth-lines, translucent, pale yellowish-corneous, becoming whitish towards the apex. Spire conoidal, the apex obtuse. Whorls  $4\frac{1}{2}$ , convex, the suture impressed. Last whorl rounded at the periphery, a little angular in front of the aperture, convex beneath. Aperture broadly lunate, the peristome thin and simple, triangularly dilated at the columellar insertion. Alt. 2.5, diam. 3 mm.

Hachijo-jima, Izu. Types no. 83378, A. N. S. P., from no. 952 of Mr. Hirase's collection.

These species are somewhat similar in contour to *K. nanodes* (Gude) and *K. reinhardti* (Pils.), but are apparently different from any of the described Japanese species. (*Pallidus*, pale.)

*Sitala latissima* n. sp. Shell minutely perforate, low trochiform, dull brown. Surface nearly lustreless, showing two or three spiral cuticular threads on the upper surface of the last and next earlier whorls. Spire conic. Whorls  $4\frac{3}{4}$ , convex, separated by a deep suture, the last whorl angular at the periphery, flattened, only weakly convex beneath. Aperture oblique, somewhat square, the periphery thin and simple, dilated at the columellar insertion. Alt. 1.5, diam. 2.3 mm.

Yayeyama, Riukiu group. Types no. 83379, A. N. S. P., from no. 953 of Mr. Hirase's collection.

Distinct by its very broadly conic shape. (*Latissimus*, widest).

*Pyramidula pauper* var. *hachijoensis* n. var.

Shell low-conic above, convex beneath, higher than *P. pauper*, angular at the periphery; regularly rib-striate, dark brown. Whorls  $4\frac{1}{4}$ ; umbilicus about one-fourth the diameter of the shell, being much narrower than in *pauper* or *depressa*. Alt. 3.7, diam. 6.5 mm.

Hachijo-jima, Izu. Types no. 83324, A. N. S. P., from no. 950 of Mr. Hirase's collection.

Although there is now a tendency to regard island races, where intergradation with the stem-form can not occur, as of specific rank, yet it seems to me that the relationships of such forms as this are best indicated by the use of a trinomial. The elevation of the spire and the narrower umbilicus readily distinguish this sub-species.

*Bulininus luchuanus* var. *oshimanus* nov. Shell similar to *B. luchuanus*, but differing in being thinner, with more conic spire, far less copious dark variegation, 7 to  $7\frac{1}{2}$  whorls, and a thinner lip.

Length 18.3, diam. 7 mm.

Length 16.3, diam. 6.3 mm.

Oshima, Osumi. Types no. 83381 A. N. S. P., from no. 930 of Mr. Hirase's collection.

*Bulininus hiraseanus* n. sp. Shell rimate, egg-shaped, being short, broad and compact, the spire short, conic with convex outlines, apex obtuse; yellow or brown; surface minutely decussate. Whorls about 6, hardly convex. Aperture oblique, ovate; peristome white, expanded and somewhat reflexed, thickened within, a small nodule on the parietal wall defining a narrow channel at the upper angle. Length 8.5-9, diam. 5 mm. Mukojima, an islet southwest of Hahajima, Ogasawara. (Mr. Y. Hirase, no. 919.)

*Diplommatina kobelti* var. *ampla* Pils.

Proc. Acad. Nat. Sci. Phila., 1902, p. 28. The locality is Gotō, Hizen, not Uzen as given in the original description.

*Carychium hachijoensis* n. sp. Shell ovate-conic, whitish, slightly translucent, nearly smooth, the growth-lines being very faint. Spire conic, the apex obtuse. Whorls  $4\frac{1}{2}$ , convex, separated by a deep suture. Aperture ovate, a little less than half the length of the shell; the peristome reflexed, much thickened throughout, white; Outer lip bearing a strong tubercle on its inner margin above the middle; columella conspicuously truncate, ending below in a strong tooth-like fold, and bearing a stout, projecting lamella above. Length 1.5, diam. 0.8 mm.

Hachijo-jima, Izu. Types no. 83,382 A. N. S. P., from no. 946 of Mr. Hirase's collection.

This species differs from *C. noduliferum* Reinh. in its shorter spire of fewer whorls, the absence of striation, and the smaller size.

*Tornatellina biplicata* n. sp.

Shell imperforate, pyramidal, thin, brown, nearly smooth; spire straightly conic, the apex obtuse. Whorls  $5\frac{1}{2}$ , convex, separated by a well impressed suture. Aperture oblique, rather narrow, sometimes showing a strong narrow, white rib within; peristome simple; columella spiral, forming a strong callous fold; parietal lamella thin but high. Length 3, diam. 1.7 mm.

Hachiojima, Izu. Types no. 83,380 A. N. S. P., from no. 948 of Mr. Hirase's collection.

This species is more lengthened than *T. ogasawarana*, or *T. varicifera*, but less so than *T. nakadai* (*biplicatus*, two-folded).

*Cochlicopa lubrica* var. *hachijoensis* nov. Shell short and wide, with very obtuse apex; whorls  $5\frac{1}{2}$ . Length 6, diam. 2.7, length of aperture 2.4 mm.

Hachijo-jima, Izu. Types no. 83,383 A. N. S. P., from no. 940 of Mr. Hirase's collection.

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LIST OF LAND SHELLS COLLECTED IN THE SACRAMENTO MTS., NEW MEXICO.

BY E. G. VANATTA.

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During April and May of the present year Messrs. J. A. G. Rehn and H. L. Viereck collected natural history specimens in the Sacramento Mts., Otero Co., New Mexico, for the Academy of Natural